

**SEQUENCE LISTING**

<110> Korea Research Institute of Bioscience and Biotechnology  
<120> Multiple stress-inducible peroxidase promoter derived from Ipomoea batatas  
<130> 4fpo-02-03  
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<213> Ipomoea batatas  
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aagtggctgc tagacaacac tctagagtcg tcagtggccg acgtgctctc actacgccta 180  
ggcatctcct ccggcaagct ttccgacgaa gactgcatac tctccgcccgt taaggaagtg 240  
gtggacgcgcg ccattgatgc agaaacccgc atgggtgctt ccctcattcg cctcttcttc 300  
catgactgct ttgttgatgt acgtacgcta attttgtacg atgatgtttt tttttttttt 360  
tttttttttc ccactgcatt atattaggaa attaaacaga ttgaaatgtg tgttattaat 420  
gtattatctg caggggttgtg acgcaggct tctactaaac gatacaccta ctttcaccgg 480  
agaacagacc gccggcggca ataataactc agtcagaggt tttgaggtga tacaacaagc 540  
taaagagaat gtgataacca aatgtcccta catacaagta tcttgcgcg acatcttac 600  
cattgctgcc cgtgattctt tccagagagt aagtccattt atttctaaag gttgaaattha 660  
ataagaacaa gaatccaaac aaataacaga cagaaaaaaa aaaagattta tgtggttga 720  
caatatgttg aaattgtttt tatatttaat gactagtatt tatgcattat atttatatgc 780  
aactctaaac atgcagttta ctggagaaac gtacaccgtg actctggaa gactcgatgc 840  
aagaacggcg aaccttacccg gagctaacac ccaactcgtc ggaccaaacg aggaattggc 900  
atcgcaagtc gagaaatttg cggcgaaagg gttctccgaa acggagctag tcgccttgc 960  
aggtgttac acgggtgggt tttcgagatg tccgcttttgcgttccca ttttcatcaa 1020  
tcccccccg gcctccacgc tgcaatgcaa ctgtccggtg agtcccgacg acaccggct 1080  
ggtgggcctg gaccccaactc cggtgacgtg ggaccaaagt ttttactccg acgtggctaa 1140

cggacaaggg cttctgttct ccgacaacga gctgatgaat agcaacacca ccagcgccgc 1200  
 cgtaggagg tacagggacg agatggacgc ttttcgcgc gatttcgcgc ccgccatgg 1260  
 gaagatgagc ctcctgcccgc cgtccccgg agtggagctc gaaatccgag aggtttgcag 1320  
 cgaggtgaat gccaacacag ttgcattccat gtgaagttcg ttccatcga catcaataac 1380  
 gtctgtgatt ctgtgaaagt ttactcgga ctgtgaagaa ttttacttt ctgttgttc 1440  
 taaaataaaaa aagatttttt ttttatgtcc taacaaaact tgtattactg aataaaaattt 1500  
 ataaatttgt ta 1512

<210> 2  
 <211> 110  
 <212> DNA  
 <213> Ipomoea batatas

<220>  
 <221> promoter  
 <222> (1)..(110)  
 <223> -110 deletion promoter

<400> 2  
 tttcccttcc aagttctcta tttaaggaag cctgagaagc cattaatcct catcatcagc 60  
 tcgaccacac atttcttctt catacttcct ttgctgtgat aatcatcatc 110

<210> 3  
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 <212> DNA  
 <213> Ipomoea batatas

<220>  
 <221> promoter  
 <222> (1)..(177)  
 <223> -177 deletion promoter

<400> 3  
 aaattaaatc tcagtttgct ttattatatt attatcaaca ataataattn aataactgatc 60  
 gaagaacttt ccctttcaag ttctctattn aaggaagcct gagaagccat taatcctcat 120  
 catcagctcg accactcatt tcttcttcat acttccttgc ctgtgataat catcatc 177

<210> 4  
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 <212> DNA  
 <213> Ipomoea batatas

<220>  
 <221> promoter

<222> (1)..(306)  
<223> -306 deletion promoter

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taaggtgttt tatacgatggca gcatgaggatgc atgacaaacg catatattat tattaaaaca 60  
aaatagtact ccaatcataa taaattatct tatattatat tgccaaacaat taaaaattca 120  
aattagaaca aattaaatct cagtttgctt tattatatta ttatcaacaa taataattta 180  
atactgatcg aagaactttc ccttcaagt tctctattta aggaagcctg agaagccatt 240  
aatcctcatc atcagctcgaa ccactcattt ctcttcata cttcccttgc tgtgataatc 300  
atcattc 306

<210> 5  
<211> 366  
<212> DNA  
<213> Ipomoea batatas

<220>  
<221> promoter  
<222> (1)..(366)  
<223> -366 deletion promoter

<400> 5  
tagtataatg aaataaagtt aatcattctc tatatttgat gatggtaatt agtatcatgg 60  
taaggtgttt tatacgatggca gcatgaggatgc atgacaaacg catatattat tattaaaaca 120  
aaatagtact ccaatcataa taaattatct tatattatat tgccaaacaat taaaaattca 180  
aattagaaca aattaaatct cagtttgctt tattatatta ttatcaacaa taataattta 240  
atactgatcg aagaactttc ccttcaagt tctctattta aggaagcctg agaagccatt 300  
aatcctcatc atcagctcgaa ccactcattt ctcttcata cttcccttgc tgtgataatc 360  
atcattc 366

<210> 6  
<211> 433  
<212> DNA  
<213> Ipomoea batatas

<220>  
<221> promoter  
<222> (1)..(433)  
<223> -433 deletion promoter

<400> 6  
atgggtactt aaagggtcgaa atccaaacata tattctgaca tttaaaaatg ctaacgtacg 60

gttagattag tataatgaaa taaagttaat cattctctat atttgatgtat ggtaattagt 120  
 atcatggtaa ggtgttttat cgtggcagca tgagtgcattt acaaacgcattt atattattat 180  
 taaaacaaaa tagtactcca atcataataa attatcttattt attatatttgc caacaattaa 240  
 aaattcaaat tagaacaaat taaatcttag tttgctttat tatattatta tcaacaataa 300  
 taatttaataa ctgatcgaag aactttccct ttcaagttct ctatthaagg aagcctgaga 360  
 agccattaaat cctcatcatc agctcgacca ctcatttctt cttcataactt cctttgctgt 420  
 gataatcatc atc 433

<210> 7  
 <211> 818  
 <212> DNA  
 <213> Ipomoea batatas

<220>  
 <221> promoter  
 <222> (1)..(818)  
 <223> -818 deletion promoter

<400> 7  
 gcttcacgca ctcaactagt cacatcttc caggcaaaat ttactttctt atgaatatga 60  
 gaagttccat ctatggaaat aacggattat ttatctaattt ttcaaattctt atatatatag 120  
 tctcgagtgg aacaaaaataa gaactaattt gaacaaatca aagtctaaga aaataataca 180  
 tgcttttagca gcaaaaataa gaatggtaactt atacttaatc ctcatcatag tcttcaaccc 240  
 tgcatatagc acacttaaca ttttatattt aatataactt taatttagtc atgataatac 300  
 aactcaccta ctccattata gccgataata caactcacctt agctactcca ttatagtcca 360  
 acaatataca atgaataaaa tagtaatggt gacttaaagg gctgaatcca acatataattc 420  
 tgacatttaa aaatgctaacc gtacggtag attagtataa tgaaataaaag ttaatcattc 480  
 tctatatttg atgatggtaa ttagtatcat ggttaagggtt tttatcgtgg cagcatgagt 540  
 gcatgacaaa cgcatatattt attataaaaa caaaatagta ctccaatcat aataaatttat 600  
 ctttatattt attgccaaca attaaaaattt caaatttagaa caaattaaat ctcagttgc 660  
 tttatttat tattatcaac aataataattt taataactgtat cgaagaactt tccctttcaa 720  
 gttctctattt taaggaagcc tgagaagcca ttaatcctca tcattcagctc gaccactcat 780  
 ttcttcttca tacttcctt gctgtgataa tcattcatc 818

<210> 8

<211> 1199  
 <212> DNA  
 <213> Ipomoea batatas

 <220>
 <221> promoter
 <222> (1)..(1199)
 <223> -1199 deletion promoter

 <400> 8
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 acttttgtaa aaaatttgat tttttttttt gatgaattca tatactccaa agatttcct 120
 catttaatta aatttctatc ctcatgttga acccattaat cgaataattg acatattaga 180
 taaaacttagc catcatatga catttgatca tgattgatga tttttaaaaaa ataaaaaacaa 240
 aattatgaaa gggtaatgaa atattttaaa aaaatttatgt aaaccctgta atctagtaat 300
 ctgtacaata ataattttgt ttcaactaag aggatgttgg caaaagtata attaaacttg 360
 ttagtcttcgt acaataatta tgcttcacgc actcaactag tcacatctt ccaggcaaaa 420
 tttacttttc tatgaatatg agaagttcca tctatggaaa taacggatta tttatcta 480
 tttcaaattc tatatatata gtctcgagtg gaacaaaaat agaactaatt tgaacaaatc 540
 aaagtctaaag aaaataatac atgcttagc agcaaaaata agaatggtag tatacttaat 600
 cctcatcata gtcttcaacc ctgcatatag cacacttaac attttatatt caaatatact 660
 ttaatttagt catgataata caactcacct actccattat agccgataat acaactcacc 720
 tagctactcc attatagtcc aacaatatca aatgaataaa atagtaatgg tgacttaaag 780
 ggctgaatcc aacatatatt ctgacattta aaaatgctaa cgtacggta gattagtata 840
 atgaaataaa gttaatcatt ctctatattt gatgatggta attagtatca tggtaagggt 900
 ttttatcgtg gcagcatgag tgcacatgacaa acgcatatat tattattaaa acaaaatagt 960
 actccaatca taataaaatca tcttatatttattt tattgccaac aattaaaaat tcaaattaga 1020
 acaaattaaa tctcagtttg ctttattata ttattatcaa caataataat ttaatactga 1080
 tcgaagaact ttcccttca agttctctat ttaaggaagc ctgagaagcc attaattcctc 1140
 atcatcagct cgaccactca tttcttcttc atacttcctt tgctgtgata atcatcata 1199

 <210> 9
 <211> 1467
 <212> DNA
 <213> Ipomoea batatas

 <220>

<221> promoter  
<222> (1)..(1467)  
<223> -1467 deletion promoter

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atactactcc aaaaattatg aaatttttat gtagcttct acacttata gactacatgt 120  
ataaaaaata ttgggtcaaa ataccttacc gatTTTccc aaatattcac ggaacttact 180  
gccagaatct accctgctt ttcctttcac tattttcaca actataagca tatatggca 240  
taaatatgac atgaacatgc atgaaccaat gcagggtgaa agtaagattg aatatactga 300  
tactacaatt aactaatgat aaagtataac ttttgtaaaa aatttgattt ttttttttga 360  
tgaattcata tactccaaag attttcctca ttaattttaa tttctatcct catgttgaac 420  
ccattaatcg aataattgac atattagata aacttagcca tcataatgaca tttgatcatg 480  
attgatgatt tttaaaaaat aaaaacaaaaa ttatgaaagg gtaatgaaat attttaaaaa 540  
aattatgtaa accctgtaat ctagtaatct gtacaataat aattttgttt caactaagag 600  
gatgttggca aaagtataat taaacttgc atttcgtac aataattatg ctgcacgcac 660  
tcaactagtc acatcttcc aggcaaaatt tactttcta tgaatatgag aagttccatc 720  
tatggaaata acggattatt tatctaattt tcaaattcta tatataatgt ctgcagtgga 780  
acaaaaatag aactaatttg aacaaatcaa agtctaagaa aataatacat gcttttagcag 840  
caaaaataag aatggtaacta tacttaatcc tcataatgt cttcaaccct gcatatacg 900  
cacttaacat tttatattca aatatacttt aatttagtca tgataataca actcacctac 960  
tccattatag ccgataatac aactcaccta gctactccat tatagtccaa caatatcaaa 1020  
tgaataaaaat agtaatggtg acttaaaggg ctgaatccaa catatattct gacattttaa 1080  
aatgctaacg tacggtaga ttatgtataat gaaataaaatg taatcattct ctatatttga 1140  
tgatggtaat tagtatcatg gtaagggttt ttatcgtggc agcatgagtg catgacaaac 1200  
gcatatattta ttataaaac aaaatagtac tccaaatcata ataaattatc ttatattata 1260  
ttgccaacaa ttaaaaattc aaattagaac aaattaaatc tcagtttgct ttattatatt 1320  
attatcaaca ataataattt aataactgatc gaagaacttt ccctttcaag ttctctattt 1380  
aaggaagcct gagaagccat taatcctcat catcagctcg accactcatt ttttcttcat 1440  
acttccttgc ctgtgataat catcatc 1467

&lt;210&gt; 10

<211> 1934  
<212> DNA  
<213> Ipomoea batatas

<220>  
<221> promoter  
<222> (1)..(1934)  
<223> -1934 deletion promoter

<400>	10	
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aatatcatct ctacttaaac tagagagatt tccaaactctc aattaatcac caaaggtaac	180	
tctccaaata tccaaatgga aggttcaac ttccaaacta ataccaaacc aaccggacta	240	
atcataatca tattcataat cataaattgt ttctaactgc ccctgtccag aaattacagt	300	
tttgcgcagt ccgaaagatt gagccgtaa caatagttcc cgaactctt ttcacttcaa	360	
attttatgg tagaacccta acttatacgta cttgatattcc ataaaaagtt ttggtcaccc	420	
agttcacga attaacacag aaaattacat ctttgccctt ggcagtggc tgtccggaa	480	
tctgtctctc tggaccagtt ttggcaaaca atttgaaac cacacttata ctactccaaa	540	
aattatgaaa ttttatggt agttctaca cttatagaac tacatgtata aaaaatattg	600	
ggtcaaaata ctttaccgat ttttccaaa tattcacgga acttactgcc agaatctacc	660	
ctgttttcc ttctactat ttccacaact ataagcatat atggcataaa atatgacatg	720	
aacatgcacg aaccaatgca gggtgaaagt aagattgaat atactgatac tacaattaac	780	
taatgataaa gtataacttt tgtaaaaaat ttgattttt ttttgatga attcatatac	840	
tccaaagatt ttcctcattt aattaaattt ctatcctcat gttgaaccca ttaatcgaat	900	
aattgacata ttagataaaac ttagccatca tatgacattt gatcatgatt gatgatttt	960	
aaaaaataaa aacaaaatta tgaaaggta atgaaatatt ttaaaaaat tatgtaaacc	1020	
ctgtaatcta gtaatctgta caataataat tttgttcaa ctaagaggat gttggcaaaa	1080	
gtataattaa acttgtgatc ttctacaat aattatgctt cacgcactca actagtccaa	1140	
tctttccagg caaaatttac tttctatga atatgagaag ttccatctat ggaaataacg	1200	
gattattttat ctaatttca aattctatat atatagtctc gagtggaaaca aaaatagaac	1260	
taatttgaac aaatcaaagt ctaagaaaat aatacatgct ttagcagcaa aaataagaat	1320	
ggtactatac ttaatcctca tcatagtctt caaccctgca tatagcacac ttaacatttt	1380	
atattcaaata atacttaat ttagtcatga taatacaact cacctactcc attatagccg	1440	

ataataacaac tcaccctagct actccattat agtccaacaa tatcaaatga ataaaatagt 1500  
 aatggtgact taaaggggctg aatccaacat atattctgac atttaaaaat gctaacgtac 1560  
 ggtagatta gtataatgaa ataaagttaa tcattctcta tatttgatga tggtaattag 1620  
 tatcatggta aggtgtttta tcgtggcagc atgagtgcat gacaaacgcata tatttattata 1680  
 ttaaaacaaa atagtaactcc aatcataata aattatctta tattatatttgcataacaat 1740  
 aaaattcaaa tttagaacaaa tttaaatctca gtttgcttta ttatattatttataacaat 1800  
 ataatttaat actgatcgaa gaactttccc tttcaagtttc tctatatttgcataacaat 1860  
 aagccattaa tcctcatcat cagctcgacc actcatttct tcttcataact tcctttgctg 1920  
 tgataatcat catc 1934

<210> 11  
 <211> 2433  
 <212> DNA  
 <213> Ipomoea batatas

<220>  
 <221> promoter  
 <222> (1)...(2433)  
 <223> -2433 promoter

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 gacgaataga ctgcgcctg aactagacat acgacaacat agccaccata cggaaaggc 120  
 acttcaagct ctttatccccg taggctgcaa caacataacg acataacgac cactggcaa 180  
 gggcatttac agccacccgt gggtaatca aggtcctcact cactcacttt agaaactaag 240  
 gtttgaaaa catgatctt cttcagttt ttcttacaac aaatcattca ctttggacac 300  
 atttcacaat tgagtccaat acttaaaccg gctacttcat tagccctga aggattttaa 360  
 aaaaaacttt cactgcccgc aggctttca aacatcttt cctcattatc aagtgaggca 420  
 ttttcctcaa aagtaagggtt ttgacaacct ttatataaaa atagcataacg ttttcaacg 480  
 taagtttcat aacatttact tgccatctca ccacttcgtc ttaaacaatc taggatattc 540  
 tttagatattc ttcatactca agtctcacac ttgaaatcaa tcaagactct tacactaaca 600  
 attcctcaat atacctcata atatcatctc tacttaaact agagagattt ccaactctca 660  
 attaatcacc aaaggttaact ctccaaatat ccaaatggaa ggttcaact tccaaactaa 720  
 taccaaacca accggactaa tcataatcat attcataatc ataaattgtt tctaactgcc 780

cctgtccaga aattacagtt ttgcgcagtc cgaaagattg agccggtaac aatagttccc	840
gaactcttt tcacttgaaa ttttatggt agaaccctaa cttatagtagtac ttgatatcca	900
taaaaagttt tggtcaccta ggttcacgaa ttaacacaga aaattacatc tttgcccttg	960
gcagtgggct gtccggaatt ctgtctctct ggaccagttt tggcaaacaa tttgaaacc	1020
acacttatac tactccaaaa attatgaaat tttatggta gcttctacac ttatagaact	1080
acatgtataa aaaatattgg gtcaaaatac cttaccgatt tttcccaaattt attcacggaa	1140
cttactgcca gaatctaccc tgcttttcc tttcactatt ttcacaacta taagcatata	1200
tgggcataaa tatgacatga acatgcatga accaatgcag ggtgaaagta agattgaata	1260
tactgatact acaattaact aatgataaag tataactttt gtaaaaaattt tgatttttt	1320
ttttgatgaa ttcatatact ccaaagattt tcctcattta attaaatttc tattctcatg	1380
ttgaacccat taatcgaata attgacatat tagataaact tagccatcat atgacattt	1440
atcatgattt atgatttttta aaaaataaaaa acaaaattat gaaaggtaa tgaaatattt	1500
taaaaaaattt atgtaaaccc tgtaatctag taatctgtac aataataatt ttgtttcaac	1560
taagaggatg ttggcaaaag tataattaaa cttgtgatct tcgtacaata attatgcttc	1620
acgcactcaa ctagtcacat ctttccaggc aaaatttact tttctatgaa tatgagaagt	1680
tccatctatg gaaataacgg attatttatac taattttcaa attctatata tatagtctcg	1740
agtggAACAA aaatagaact aatTTGAACA aatCAAAGTC taAGAAAATA atACATGCTT	1800
tagcagcaaa aataagaatg gtactatact taatcctcat catagtcttc aaccctgcatt	1860
atagcacact taacattttta tattcaaata tactttattt tagtcatgat aatacaactc	1920
acctactcca ttatagccga taatacaact cacctagcta ctccattata gtccaacaat	1980
atcaaatgaa taaaatagta atggtgactt aaaggctga atccaacata tattctgaca	2040
ttaaaaaatg ctaacgtacg gtttagattag tataatgaaa taaagttaat cattctctat	2100
atttgatgat ggttaattttt atcatggtaa ggtgtttttt cgtggcagca tgagtgcatt	2160
acaaacgcattt atattttat taaaacaaaa tagtactcca atcataataa attatcttatt	2220
atttatattgc caacaattaa aaattcaaattt tagaacaaat taaatctcag tttgctttat	2280
tatattattta tcaacaataa taatttaata ctgatcgaag aactttccct ttcaagttct	2340
ctatttaagg aagcctgaga agccattaat cctcatcatc agctcgacca ctcatttctt	2400
cttcataactt ctttgctgt gataatcatc atc	2433

<211> 26  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> GSP1 promoter

<400> 12  
ctgagccgag tgacaaagga agccat 26

<210> 13  
<211> 22  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> AP1 promoter

<400> 13  
gtaatacgac tcactatagg gc 22

<210> 14  
<211> 25  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> GSP2 promoter

<400> 14  
cacagcaaag gaagtatgaa gaagc 25

<210> 15  
<211> 19  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> AP2 promoter

<400> 15  
actatagggc acgcgtgg 19

<210> 16  
<211> 26  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> exon promoter

<400> 16  
atggcttcct ttgtcactcg gctcag 26

<210> 17  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> intron promoter

<400> 17  
tcatcagctc gaccactcat ttcttcttca 30

<210> 18  
<211> 35  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> forward promoter for -2433 deletion promoter

<400> 18  
gccaagcttg gtcctcatgg agtattctca taact 35

<210> 19  
<211> 33  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> forward primer for -1934 deletion promoter

<400> 19  
gccaagcttt tgccatctca ccacttcgtc tta 33

<210> 20  
<211> 31  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> forward primer for -1467 deletion promoter

<400> 20  
gccaagcttg gctgtccgga attctgtctc t 31

<210> 21  
<211> 33  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> forward primer for -1199 deletion promoter

<400> 21  
gccaagctta tgcagggtga aagtaagatt gaa 33

<210> 22  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> forward primer for -818 deletion promoter

<400> 22  
gccaagcttg cttcacgcac tcaact 26

<210> 23  
<211> 33  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> forward primer for -433 deletion promoter

<400> 23  
gccaagctta tggtgactta aagggtgaa tcc 33

<210> 24  
<211> 34  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> reverse primer for -2433, 1934, 1467, 1199, 818, 433, 366, 306, 177 and 110 deletion promoter

<400> 24  
tcctctagag atgatgatta tcacagcaa ggaa 34

<210> 25  
<211> 31  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> forward primer for -366 deletion promoter

<400> 25  
ttcctgcaga tagtataatg aaataaaagtt a 31

<210> 26  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> forward primer for -306 deletion promoter

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